

12-8-1988

Washington University Record, December 8, 1988

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Recommended Citation

"Washington University Record, December 8, 1988" (1988). *Washington University Record*. Book 464.
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RECORD

Washington
WASHINGTON · UNIVERSITY · IN · ST. LOUIS

Vol. 13 No. 14/Dec. 8, 1988



Seasonal songs: The Washington University Chamber Choir rehearses for a Christmas Concert that it will present at 8 p.m. Friday, Dec. 9, in Graham Chapel. The choir, formerly called the Madrigal Singers, incorporates 19 voices under the direction of Louis Schuler, Ph.D. The free program will feature "The Christmas Story," a work by German composer Hugo Bistler. The choir also will sing 16th- and 17th-century motets. For more information about the concert, call 889-5581.

Endangered species?

Migrating songbirds are going the way of the Big Band Era

Though winter can be bleak for the nation's veteran bird watchers, April has become the cruellest month.

For many years, hundreds of species of migrating songbirds — warblers, flycatchers, thrushes, vireos and others — swarmed into the nation's woods in April and May on their way from neo-tropical forests to a northland mating rendezvous that lasts two months. Their chorus was a discordant yet harmonious happening, their return one of the grandest free shows in nature.

But the annual songbird jam session seemingly has gone the way of the Big Band Era. Their population has declined so rapidly over the past 40 years that concerned ecologists such as Richard Coles, Ph.D., professor of biology at Washington University, are perplexed by the phenomenon.

He says the currently popular theory behind the dwindling numbers — the rapid, relentless deforestation of large tracts of woodlands in Central and South America, the primary homeland of the birds — may be just one of several insidious facets of 20th-century Manifest Destiny at work.

"The emerging picture is that a whole group of birds is fighting for survival on two fronts — in North and South America," Coles says. "The Latin American expansion in the name of progress is little more than *deja vu* of the United States' drive in the 20th century to feed its own and the rest of the world. The result is that North American habitat — both woodlands and prairies — is becoming fragmented and vastly reduced in area. In South America, the same problems confront the tropical rain forest. This greatly impacts populations and evolution of wildlife."

Agricultural practices, suburban sprawl as evidenced by shopping centers, subdivisions and athletic fields at the edge of communities, and the

building of roadways and railways are examples of habitat fragmentation. In addition, Coles says, factors such as drought and the effects of other species make a yearly impact on migratory bird numbers.

Coles, who oversees the Tyson Research Center, the University's 2,000-acre wooded wildlife refuge near Eureka, Mo., has surveyed migrating songbirds there each spring since 1980. His results are disturbing: for seven of those years the numbers of migrating birds are dramatically down from the first year of the survey.

One of the more common songbird categories, the migrating warblers, have dropped off 30 percent or more at Tyson Center, Coles says.



The yellow-throated vireo is among the songbirds fighting for survival.

"There is something afoot," the biologist says. "But no one has hard proof to say just one factor — for instance, tropical deforestation — is the chief culprit."

Indeed, a core of ornithologists and wildlife biologists, including Coles, are reluctant to cast stones at our Latin neighbors. Some consider the present manifestation a possible upshot of purely domestic practices.

"It's much too early to say tropical deforestation is behind all of this," says Glen Sanderson, Ph.D., head of the section of Wildlife Research at the Illinois Natural History Survey in Champaign. The immediate decline of at least some species is due to fragmented habitats, predation and parasitism, he believes. Studies show as much as 80 percent of some songbird species in the United States are lost to predators that naturally live in areas that the songbirds are now forced to nest and breed. Parasites such as the cowbird also destroy a lot of the population.

"Add it all together and you have species that are facing an uphill battle in North America regardless of what is happening in South America," Sanderson observes.

And Coles cautions Americans not to consider our own drive to tame the continent as ancient history.

"We need only to glimpse in the real estate developers' section of the Sunday paper to be reminded that urban sprawl is accelerating," the biologist says. "And in the country, the center pivot irrigation sprinklers are an especially noticeable image of the continuing expansion of man's influence."

Bird population trends as reflected at the Tyson Research Center may be the harbinger of an ecological series of chain reactions that could bode ill for the 21st century. If, for

Continued on p. 2

History of freedom project gets Bradley Foundation support

The Lynde and Harry Bradley Foundation of Milwaukee, Wis., has awarded a grant of \$515,000 to support the 1989 and 1990 Institutes for the History of Freedom at Washington University, according to Chancellor William H. Danforth.

The institutes are sponsored by the Center for the History of Freedom, which was established in 1985 to produce a multi-volume history of modern freedom. The first study of this scope, the project is expected to span 25 years, and will trace the growth of modern freedom in the West and in the world.

"We are indeed fortunate to have a scholar like Jack Hexter and the support of the Bradley Foundation in pursuit of this important study of the bases of freedom," Danforth said.

A group of six to eight scholars, expert on related topics concerning the history of freedom, presents papers that are the subject of three days of discussion and review at an annual conference on the Making of Modern Freedom. These same scholars reassemble at an annual institute at Washington University. There, working together, they shape their studies into a coherent volume.

J. H. Hexter, Ph.D., John M. Olin Professor of the History of Freedom at the University and director of the center and institute, says, "I very much admire the intelligence and determination that the Bradley Foundation has displayed in providing support for this massive project."

Hexter said he hopes to submit the first three volumes to a publisher during the first half of 1989.

The Lynde and Harry Bradley Foundation was established in February 1985 following the sale of Allen-Bradley Co. to Rockwell International. It is named to honor the two brothers who founded the company in 1903. The foundation is a private, independent grant-making institution that supports research and education.

Missouri funds architecture school's fellowship program

The School of Architecture has announced the establishment of a fellowship program to be contractually funded by the state of Missouri. A number of annual scholarships, to be called the Missouri Fellowships, will be awarded to professional-level students pursuing degrees in architecture at the University.

The Missouri Fellowship recipients for 1988-89 have been named. They are Kathryn Korn, Glendolyn Morris, Robert Powers, Lynn Sauve and Christopher Sherrill. All are graduate students who are candidates for the master's of architecture professional degree.

The Missouri Fellowships are believed to be the first grants jointly awarded by a private architecture school and a state government. The contract between the University and the Missouri Coordinating Board for Higher Education specifies that the state will provide \$4,000 toward each fellow's tuition.

"So far as I know, this is a unique and pioneering example of cooperation between the public and private sectors in funding architectural education," says Constantine E. Michaelides, dean of the School of Architecture.

"The fellowships will benefit the

Continued on p. 2



The 9 1/2-inch wide and 15 3/4-inch high bronze bust of English writer William Somerset Maugham will be on display early next year in Olin Library's Harris Reading Room, level 4.

Baers donate sculpture to library

Howard and Isabel Baer have donated a bronze sculpture of English writer William Somerset Maugham (1874-1965) to the Washington University Libraries.

Baer, a local philanthropist, is an active member of the St. Louis community. He is on the board of directors for many local organizations, including the Municipal Theatre Association and the St. Louis Zoological Park. He has received honorary degrees from Washington University and the University of Missouri-St. Louis.

The bust of Maugham, a novelist, short story writer and playwright, was created by American-born artist Sir Jacob Epstein in 1951. Maugham is best known for the 1915 novel *Of Human Bondage*.

Epstein, who died in 1959, was a world-renowned contemporary sculptor who specialized in portraits of prominent literary figures. The sculpture, which will be on display in Olin Library, has a dark patina (a green finish caused by oxidation) and rests on a marble base.

Record sent home to include families; duplicate copies may be eliminated

From time to time the Washington University Record office hears from employees who are receiving more than one copy of this publication at their homes. We also hear from readers who wonder why they even receive it at home when copies of the publication are distributed around campus.

The Record is sent to employees' homes as a way of involving their families in campus activities and making the families feel they belong to the University community as well.

Before the Record was mailed to homes, readership surveys showed that less than one-fourth of the employees took the publication home for family and friends to read, thereby eliminating an enormously important audience for the University. The purpose of the Record is to be a service for all members of the Washington University community through announcing activities, the calendar and providing information on important developments.

The cost of sending the Record to employees' homes is extremely low because of a special educational non-profit second-class in-county postage rate category.

If you are receiving duplicate copies at home, this is possible for several reasons: 1.) Two or more members of the household are employees of the University and each employee is entitled to receive all official University mailings; 2.) A member of the household belongs to the University's Eliot Society. Membership in the society includes receipt of the Record; and/or 3.) There is an error in the University's records.

If you are receiving more than one copy at your home and would like to receive only one copy, please send all duplicate labels from the most recent issue to the Record, Washington University, Campus Box 1070, One Brookings Drive, St. Louis, Mo. 63130.

Every attempt will be made to eliminate duplication.

East German ambassador will lecture

Gerhard Herder, ambassador of the German Democratic Republic to the United States, will present an Assembly Series lecture at 4 p.m. Tuesday, Dec. 13, in Graham Chapel. The talk is free and open to the public.

The ambassador of East Germany will be in St. Louis to present seven-year-old Brent Fornelli of Meramec School with a letter and videotape from Erich Honecker, chairman of the German Democratic Republic. Fornelli had participated in a project sponsored by K.I.D.S. (Kids Internationally Distributed Superstation), in which St. Louis school children wrote to world leaders to promote world peace.

Herder has served as ambassador to the United States since 1983. From 1979-83 he was ambassador and permanent representative to the United Nations and other international

organizations in Geneva. He also served as ambassador and permanent



Gerhard Herder

representative to the Geneva Committee on Disarmament from 1975-79. Prior to that he was ambassador extraordinary and plenipotentiary of the GDR in Lebanon. Herder has a

degree from the Academy of State and Legal Services in Potsdam.

The lecture is sponsored by the Assembly Series, the Greater St. Louis Chapter of the United Nations Association, K.I.D.S. and the World Affairs Council of St. Louis. For more information, call 889-5285.

Songbirds — *continued from p. 1*

example, researchers find that songbird species are declining in Latin America as well — there have been few reliable bird surveys done there — this could mean a global ecological nightmare, spurred by massive deforestation.

Since the 19th century, global carbon dioxide levels have risen 30 percent; scientists blame this increase on the uprooting of millions of trees since the 19th century that use and store the gas. This and the burning of fossil fuels, in turn, contribute to the greenhouse effect as well as impair the ability of some deforested areas to recycle rainfall. A forested area the size of West Virginia is said to be disappearing each year from South America — with a reforestation rate only 10 percent of what is being harvested. The destruction of habitat imperils the existence of as many as 10 million different species of animals, plants and fungi.

The deforestation is prompted by the huge demand for agricultural and forest goods — coffee, sugar, bananas, grain, beef and exotic woods such as teak, mahogany and rosewood.

Ironically, the issue comes to light at a time when forestry is rebounding in the United States. But while there are incentives to grow trees, it takes 30 to 60 years for hardwoods to mature. The great majority of farmers put their idle acres into grasses, clover or alfalfa

— far less permanent a commitment than trees.

At the Tyson Research Center, just 30 miles west of St. Louis, the hum of Interstate 44, which roughly parallels old Route 66, can be heard throughout much of the woods. Suburbs slowly encroach from the east. The refuge, operated by Washington University since 1963, is devoted to the study, preservation and rehabilitation of endangered native North American species — the Mexican red wolf, raptors, species of bats, rattlesnakes and coyotes, among others. Inadvertently, the migrating songbird is being added to the list.

"Certainly it would be a tragedy to lose the birds," Coles says. "But their loss also would impact agricultural and forestry practices. These birds are efficient insect-eaters. They are a part of the natural system of checks and balances. Without them, you could try to rely on chemicals to control insects, I suppose, but that's risky business. It's much cheaper and more appropriate to have a natural control."

"A basic law of ecology is that all things in nature are interrelated. We seem to have lost sight of that. Monitoring bird populations gives us a chance to keep a finger on the pulse of the ecosystem. While the pulse is steady at this point, our bird surveys indicate it is not nearly so strong as it was just less than a decade ago."

Tony Fitzpatrick

Architecture —

continued from p. 1

state, the architectural profession and the School of Architecture," he continues. "Missourians will gain access to one of the oldest and most well-established architectural programs in the nation."

The scholarships will be awarded each year to Missouri residents who have been admitted to professional-level study in the School of Architecture. Award recipients will be eligible for three academic year renewals for a maximum of four years of study at the school.

The fellowships are awarded on the basis of academic excellence and financial need. To be eligible, students must meet specific Missouri residency requirements.

"We appreciate the support of the governor and the general assembly, and hope from this modest beginning the program will grow to assist more Missouri students," says Michaelides.

The School of Architecture, established in 1910, is Missouri's only accredited institution for architectural education.

RECORD

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Record (USPS 600-430; ISSN 0745-2136), Volume 13, Number 14, Dec. 8, 1988. Published weekly during the school year, except school holidays, monthly during June, July and August, by News and Information, Washington University, Box 1070, One Brookings Drive, St. Louis Mo. 63130.

Second-class postage paid at St. Louis, Mo.

Address changes and corrections:

Postmaster and non-employees: Send address changes to: Record, Washington University, Box 1070, One Brookings Drive, St. Louis, Mo. 63130.

Hilltop Campus employees: Send to: Personnel Office, Washington University, Box 1184, One Brookings Drive, St. Louis, Mo. 63130.

Medical Campus employees: Send to: Payroll Office, Washington University, Box 8017, 660 S. Euclid, St. Louis, Mo. 63110.

NOTABLES

Joan Cassel, Ph.D., a research associate in the anthropology and sociology departments, is having her book *A Group Called Women* republished by Waveland Press. Longmans Green was the original publisher. The book reports her ethnographic study of the women's movement as it flourished in a large city and on a metropolitan university campus.

Richard Colignon, Ph.D., assistant professor of sociology, recently delivered a talk, titled "Elite Ideological Networks," at the American Sociological Association Meetings in Atlanta. The paper is the basis for Colignon's explanation of the Tennessee Valley Authority policy and, more generally, the New Deal policy of the late 1930s.

Susan Crawford, Ph.D., director of the medical school library and professor of biomedical communication, spoke on a panel, titled "Evaluation of Scientific Information: Peer Review and the Impact of New Information Technology," at the annual meeting of the American Society for Information Science held in Atlanta, Ga. Members of the panel included Philip Abelson, former editor of Science, and Eugene Garfield, president of the Institute for Scientific Information. As chair of the society's Medical Information Systems, Crawford received the outstanding specialty group award for 1988. Information Systems.

Bjorn E.J. Dahlberg, Ph.D., professor of mathematics, gave an invited one-hour address at the 845th meeting of the American Mathematical Society, held Oct. 29 in Lawrence, Kan. The topic of his lecture was elliptic boundary value problems in non-smooth domains. In conjunction with the address there was a special session of 16 selected 20-minute papers.

Andrew D. Dimarogonas, Ph.D., William Palm Professor of Mechanical Design, wrote a book on *Computer Aided Machine Design* that was published recently by Prentice-Hall. The book introduces computer methods in machine design and proposes a new approach for teaching the subject based on engineering science methodology rather than empirical component design. As a National Industrial Development Bank Foundation Scholar, Dimarogonas was an invited speaker at the History of Technology Conference, held recently in Greece. He spoke on "Vibration Theory in Pythagoras and Aristotle."

Gerald Early, Ph.D., assistant professor of English and African and Afro-American Studies, chaired a panel titled "The Whiteness of Blackness: The White Critic, the Black Creative Subject, and the Seams of American Culture" at the American Studies Association Conference, held recently in Miami, Fla. Early also read a paper titled "The White Intellectual and the Mythology of the Celebrated Black Fighter." **Rhonnie Washington**, Ph.D., assistant professor of performing arts and African and Afro-American Studies, also delivered a paper for the panel titled "From Lorraine Hansberry to August Wilson: Has the Black Dramatist Made It?"

Monica Gourovitch, a fourth-year graduate student working toward a doctorate in clinical psychology, was awarded a \$5,000 stipend from the Missouri Planning Council for Developmental Disabilities to research treatment effects on children with phenylketonuria (PKU). PKU is a genetic disorder that causes severe mental retardation in infants if untreated. The council, an advisory body to the Department of Mental Health,

has sponsored the graduate stipend program since 1985 to stimulate new career interest in the developmental disabilities field.

Michael R. Kuhn, a graduate student in the Department of Engineering and Policy, is the Missouri winner of the NCR Corp. Stakeholder Essay Competition. More than 2,500 students nationwide submitted essays on the topic "Creating Value for Stakeholders in Corporations and/or Not-for-Profit Organizations." Kuhn, who is working toward a master's degree in the Management of Technology program, received a \$1,000 and a commemorative plaque for his essay, titled "Stakeholder Management: Current Dimensions, New Visions." There were 100 winners in the competition.

Barry J. Linder, M.D., a resident in the Department of Ophthalmology, completed work as a staff associate for operational medicine on the NASA Advisory Council's Life Sciences Strategic Planning Study Committee. Linder attended a meeting and a news conference in Washington, D.C., to officially release the committee's report, titled "Exploring the Living Universe, a Strategy for Space Life Sciences."

Jean Masson, assistant professor of finance, provided discussion comments for a paper titled "Forward and Spot Exchange Rates: The Case for Market Inefficiency in the Post-1979 Period" at the Financial Management Association meetings, held Oct. 19-22 in New Orleans, La.

Buford L. Pickens, professor emeritus of architecture, is a contributor to *Pueblo Style and Regional Architecture*, a book that will be published in 1989 by Van Nostrand Reinhold. Pickens' paper "Regionalism in American Architecture: a Comparative Review of Roots" will appear in the book, which addresses regionalism in general, and then focuses on the evolution and diverse interpretations of the unique regional architecture of New Mexico.

Bernard D. Reams Jr., J.D., Ph.D., professor of law and director of the law library, and **Stuart D. Yoak**, Ph.D., university registrar, co-authored *The Constitutions of the States: A State-by-State Guide and Bibliography to Current Scholarly Research*, which recently was released by Oceana Publications of Dobbs Ferry, N.Y. This is a companion volume to their earlier work *The Constitution of the United States*, which was selected by the American Library Association as one of the best reference books for 1987.

Roy D. Simon Jr., J.D., associate professor of law, will have his article "Fee Sharing Between Lawyers and Public Interest Organizations" published by the Yale Law Journal.

Timothy L. Smunt, Ph.D., associate professor of operations and manufacturing management, co-authored two papers that recently were accepted for publication. "Optimal Acquisition of Automated Flexible Manufacturing Processes," written with G. Monahan of the University of Illinois, will appear in Operations Research. The other paper, "Forecasting Using Partially Known Demands," written with T. Morton and S. Kekre of Carnegie-Mellon University, will be published in International Journal of Forecasting. Smunt and Monahan presented a paper, titled "Estimating the Value of Flexibility in Batch Production: A Simulation Experiment," at the meeting of The Institute of Management Science/Operations Research Society of America, held in Washington, D.C.

Karen Tokarz, J.D., professor of law and director of clinical education, has been appointed to the Association of American Law Schools' Standing Committee on Clinical Legal Education for a three-year term, beginning Jan. 1, 1989. Recently Tokarz participated in a panel discussion on "Gender Bias in the Courts" at a meeting of the St. Louis Chapter of the American Jewish Congress. She spoke at the University of Missouri-St. Louis Women's Center on "Exclusionary Clubs: Balancing the Right of Association v. the Right of Non-discrimination." She also presented the keynote speech on "What Lies Ahead for All Women's Institutions, Associations, Clubs or Teams?" at the annual dinner meeting of the St. Charles Chapter of the American Association of University Women.

Charles E. Wasley, Ph.D., assistant professor of accounting, co-authored two papers that recently have been accepted for publication. One paper, "Measuring Security Price Performance in Size-Clustered Samples," was written with S. P. Kothari of the University of Rochester and will appear in The Accounting Review in 1989. The other paper, "The Relation Between the Return Interval and Betas: Implications for the Size-Effect," was written with Kothari and P. Handa of New York University and will be published this year in the Journal of Financial Economics.

Law school teams to compete in nationals

At a recent regional moot court competition held in Kansas City, Mo., a Washington University law school team was selected to compete in the National Moot Court Competition to be held Jan. 23-26 in New York City.

Approximately 40 students competed at the Nov. 19-20 regionals at the Federal Courthouse in Kansas City, where they wrote legal briefs and presented oral arguments to panels of judges. The regional competition was sponsored by the Kansas City Metropolitan Bar Association. The Association of the Bar of the City of New York sponsors the nationals.

Third-year law students Jeffrey P. Fairchild, George D. Martin and Geetha R. Sant comprise the team selected to compete at the nationals. Washington also sponsored another moot court team at the regionals, which was composed of Daniel R. Francis, Peter W. Ito and Michael Pickett, all third-year students. The faculty adviser is Lawrence W. Iannotti, LL.M., visiting associate professor of law.

The weekend of Nov. 19 and 20 was a busy time for Washington's law school students. A University team comprising third-year students Lynn M. Bohlmann and K.T. Schmidt competed at the American Bar Association's Regional Negotiation Competition held at the University of Missouri-Columbia.

Gregory B. Waymire, Ph.D., associate professor of accounting, and **Jacqueline S. Pownall**, Ph.D., assistant professor of accounting, co-authored a paper titled "Voluntary Disclosure Credibility and Securities Prices: Evidence for Management Earnings Forecasts, 1969-73." The paper has been accepted for publication in the Journal of Accounting Research. Waymire attended the University of Chicago's annual accounting research conference, where he presented discussion comments for a paper titled "Big Baths as Procedures to Manage Perceptions." The paper and Waymire's comments will appear in the Journal of Accounting Research Supplement for 1988.

Have you done something noteworthy?

Have you: Presented a paper? Won an award? Been named to a committee or elected an officer of a professional organization? The Washington University Record will help spread the good news. Contributions regarding faculty and staff scholarly or professional activities are gladly accepted and encouraged. Send a brief note with your full name, highest-earned degree, current title and department along with a description of your noteworthy activity to Notables, Campus Box 1070, or by electronic mail to p72245SS at WUVMC. Please include a phone number.

NEWSMAKERS

Washington University faculty and staff make news around the globe. Following is a digest of media coverage they have received during recent weeks for their scholarly activities, research and general expertise.

Chest pain can be caused by anything from stomach gas to a life-threatening heart attack. The October issue of *Redbook* magazine details possible causes of chest pain and gives advice on getting the kind of help

needed. A condition called costochondritis (also called Tietze's syndrome) can cause chest pain similar to a heart attack, says Lewis Fischbein, M.D., associate professor of medicine. The disease is associated with arthritis, he says, and may also be stress-related. In the article he describes the pain and adds that it can be treated with anti-inflammatory drugs and sometimes cortisone injections. A synopsis of the Redbook article appeared in the Oct. 15 *Rocky Mountain News*.

CALENDAR

Dec. 8-17

LECTURES

Thursday, Dec. 8

4 p.m. Dept. of Chemistry Seminar, "Microscale Structural Determination of Oligosaccharides — A Chiroptical Approach," Koji Nakanishi, prof. of chemistry, Columbia U. 215 Rebstock.

4 p.m. Plant Biology Program, "Evolution of Chloroplast Encoded Genes," Michael Clegg, Dept. of Botany and Plant Science, U. of California/Riverside. 322 Rebstock.

4 p.m. Dept. of Pathology Seminar, "What Have Tissue Culture Observations Told Us About Peripheral Nerve Development *in vivo*?" Mary B. Bunge, Dept. of Anatomy and Neurobiology. Third floor Aud., Children's Hospital.

4 p.m. Central Institute for the Deaf (CID) Seminar, "Perception of Vowels," Marios Fourakis, assistant research scientist, CID; and John W. Hawks, advanced graduate student research assistant, CID. Clinics and Research Bldg. Aud., 909 S. Taylor Ave.

4 p.m. Dept. of Philosophy Colloquium, "Low Blows: Some Empirical Considerations on Observation and Theory," Daniel Gilman, WU visiting professor of philosophy. Hurst Lounge, Duncker Hall.

Friday, Dec. 9

Noon. Dept. of Cell Biology and Physiology Seminar, "Regulation of Complement Biosynthesis in Human Monocytes," F. Sessions Cole, Dept. of Pediatrics. Cell Biology Library, 4914 South Bldg., 4577 McKinley.

2:30 p.m. Thesis Defense, "Tn5 Insertion Specificity and Plasmid Supercoiling," Jennifer Lodge, Plant Biology Program. Room 775, McDonnell.

4 p.m. Oral Examination for the Doctorate, "Financial Innovation, Market Structure, and the End of the National Banking Era," Stephen Drew Smith, Dept. of Economics. Room 300, Eliot Hall.

Monday, Dec. 12

12:45 p.m. Society of Professors Emeriti Meeting. The speaker, Clifford Jordan, assistant director of psychological services at Malcolm Bliss Hospital, will discuss "The Adult Rape Victim in Contemporary Society." Whittemore House, 6440 Forsyth Blvd. For more info., call 821-5054.

4 p.m. Immunology Seminar, "Decay Accelerating Factor: From Gene to Phospholipid-Anchored Membrane Protein," Douglas Lublin, Depts. of pathology and medicine. Third Floor Auditorium, Children's Hospital.

Tuesday, Dec. 13

1:30-3:30 p.m. Dept. of Romance Languages and Literatures: A Week With Sylvia Molloy. Molloy, novelist and critic from Yale U., will conduct a series of talks and discussions on autobiographical writing in Spanish America. Discussions will be held through Dec. 16 from 1:30-3:30 p.m. 109 Ridgley.

4 p.m. Assembly Series Lecture with Gerhard Herder, ambassador of the German Democratic Republic to the United States. Also sponsored by the Greater St. Louis Chapter of the United Nations Association, K.I.D.S. (Kids Internationally Distributed Superstition) and the World Affairs Council of St. Louis. Graham Chapel.

Wednesday, Dec. 14

Noon. Neuroscience Luncheon Seminar, "Trophic Interactions of Motor Neurons," William Snider, Dept. of Neurology. Room 928, McDonnell.

Thursday, Dec. 15

4 p.m. Annual Robert J. Terry Lecture, "The Ontogeny and Phylogeny of the Neocortex," Pasko Rakic, Yale U. School of Medicine. Moore Aud., 4580 Scott Ave.

4 p.m. Dept. of Pathology Seminar, "Subpleural Interstitial Bronchial Artery Pedicle: Optional Bronchial Revascularization in Single and Double Lung Transplantation and Heart-Lung Transplantation," Hans Schreinemakers, Dept. of Surgery. Third Floor Aud., Children's Hospital.

4 p.m. Central Institute for the Deaf (CID) Seminar, "The Gravity Receptor System in the Marine Mollusc *Aplysia Californica*," Michael L. Wiederhold, Division of Otolaryngology at the U. of Texas Health Science Center. Clinics and Research Bldg. Aud., 909 S. Taylor Ave.

4:10 p.m. Dept. of Philosophy Colloquium, "Defeasible Reasons for Acting," Ron Loui, asst. prof. of computer science, adjunct asst. prof. of philosophy. Hurst Lounge, Duncker Hall.

8 p.m. Dept. of Romance Languages and Literatures Lecture, "At Face Value: Autobiographical Writings in Spanish America," Sylvia Molloy, novelist and critic, Yale. Hurst Lounge, Duncker Hall.

Friday, Dec. 16

Noon. Dept. of Cell Biology and Physiology Seminar, "Coordinate Expression of Insulin-like Growth Factors and Their Receptors During



A special collection: A signed portrait of playwright Eugene O'Neill and his third wife, Carlotta Monterey O'Neill, is included in "Eugene O'Neill: A Centenary Celebration," an exhibit on display through Dec. 30 in Olin Library, Special Collections. Considered one of the most significant private O'Neill collections in the world, it consists of some 300 items by and about the Nobel Prize-winning playwright. The collection, on display for the first time, is owned by Harley Hammerman, M.D., a St. Louis radiologist and a 1975 graduate of the University's School of Medicine. The exhibit, which is open from 8:30 a.m.-5 p.m. weekdays, includes more than 100 books, many of them signed first editions; 25 letters written by O'Neill and another 50 written by Carlotta; dozens of manuscripts and galley proofs; and some 30 photographs.

Skeletal Muscle Differentiation," Peter S. Rotwein, WU assoc. prof. of medicine. Cell Biology Library, Room 4914, South Bldg., 4577 McKinley.

2 p.m. Oral Examination for the Doctorate, "The Effects of Two Methods of Teaching Basic Music Concepts Utilizing Twentieth-Century Music: A Creative Composition and Performance Approach, and a Traditional Guided Listening Approach," Larry Gene Smithee, Dept. of Music. 101 Blewett.

MUSIC

Thursday, Dec. 8

8 p.m. WU Dept. of Music Presents WU Mixed Choir Concert with Sally Herman, director. Graham Chapel.

Friday, Dec. 9

8 p.m. WU Dept. of Music Presents WU Chamber Choir Christmas Concert with Louis Schuler, director. Graham Chapel.

Saturday, Dec. 10

7:30 p.m. WU Wind Ensemble, directed by Dan Presgrave, will participate in the Christmas Carols Festival at Kiel Aud. (Also Sun., Dec. 11, at 2 p.m., Kiel.) The festival, which will benefit 75 children's charities, is in its ninth year. Tickets are \$4-6 and can be purchased at the Kiel box office, Famous-Barr and other Tickets NOW locations.

Tuesday, Dec. 13

4-5 p.m. Auditions for WU Wind Ensemble for the second semester. Tietjens Rehearsal Hall. To schedule an audition, call 889-5581. (Auditions also will be held from 4-5 p.m. Jan. 17 in Tietjens.)

5-6 p.m. Auditions for WU Symphony Orchestra for the second semester. Tietjens Rehearsal Hall. To schedule an audition, call 889-5581. (Auditions also will be held from 5-6 p.m. Jan. 17 in Tietjens.)

EXHIBITIONS

"Video: Form and Performance." Through Dec. 17. Gallery of Art, Steinberg Hall, lower level. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

"Eugene O'Neill: A Centenary Celebration," an exhibit drawn from the private collection of Harley J. Hammerman. Through Dec. 30. Olin Library Special Collections. 8:30 a.m.-5 p.m.

"Faculty Show," works by WU faculty. Through Jan. 8. Gallery of Art, Steinberg Hall, 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

"MFA Exhibit," featuring work of sculptor Chuck Hassel. Through Dec. 11. Bixby Gallery. 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends.

FILMS

Thursday, Dec. 8

7 and 9 p.m. WU Filmboard Series, "Volpen." \$2. Brown Hall.

Friday, Dec. 9

7 and 9:30 p.m. WU Filmboard Series, "Moonstruck." \$2. Brown Hall. (Also Sat., Dec. 10, same times, and Sun., Dec. 11, at 7 p.m.)

Midnight. WU Filmboard Series, "A Christmas Story." \$2. Brown Hall. (Also Sat., Dec. 10, same time, and Sun., Dec. 11, at 9:30 p.m., Brown.)

Monday, Dec. 12

7 and 9 p.m. WU Filmboard Series, "What's Up Tiger Lily?" \$2. Brown Hall. (Also Tues., Dec. 13, same times, Brown.)

Wednesday, Dec. 14

7 and 9 p.m. WU Filmboard Series, "Being Two Isn't Easy." \$2. Brown Hall. (Also Thurs., Dec. 15, same times, Brown.)

SPORTS

Saturday, Dec. 10

7:30 p.m. Men's Basketball, WU vs. Rust College. Field House.

MISCELLANY

Friday, Dec. 9

Noon. Woman's Club Mini-Luncheon and Holiday Concert featuring the "Pitch Pipers." Women's Bldg. The cost is \$3 for members and \$4 for their guests. For more info., call Renata Rotkiewicz at 862-0422.

Symphony Orchestra, Wind Ensemble will hold auditions

Both the Washington University Symphony Orchestra and the Washington University Wind Ensemble will hold auditions for the second semester.

Auditions are open to University students, faculty and members of the St. Louis community.

The orchestra auditions will be held from 5 to 6 p.m. Tuesday, Dec. 13, and from 5 to 6 p.m. Tuesday, Jan. 17, in Tietjens Rehearsal Hall. The symphony has immediate openings in all string sections and in all wind sections except flutes.

The orchestra is scheduled to perform one concert in February and a second concert in April in the Saint Louis Art Museum Theatre.

Founded in the 1940s, the Washington University Symphony Orchestra is a select group of musicians dedicated to the performance of the symphonic repertoire from Baroque to modern periods. The orchestra, a collegiate member of the American Symphony Orchestra League, is directed by Dan R. Presgrave, Washington University director of bands.

The wind ensemble auditions will be held from 4 to 5 p.m. Tuesday, Dec. 13, and from 4 to 5 p.m. Tuesday, Jan. 17, in Tietjens Rehearsal Hall.

Presgrave, founder and director of the ensemble, reports that there are immediate openings in the trumpet, bass clarinet, trombone, baritone horn, percussion and oboe sections.

The 55-member ensemble, founded in 1972, plays a repertoire that includes the best wind literature from all periods, ranging from chamber pieces to full concert band music.

To schedule an audition, call 889-5581.

Outpatient mental health clinic in Eads expands services

The Psychological Service Center, an outpatient mental health clinic at the University, has expanded its services and has openings for new clients. Located in Eads Hall, the center is open to individuals of all ages in the community.

The center is staffed by faculty and advanced graduate students in the University's clinical psychological doctoral program. The graduate students are supervised by the faculty, who are licensed clinical psychologists. Amy D. Bertelson, Ph.D., is the director.

Short- or long-term psychotherapy is offered to all clients. In response to demand, the staff can design group therapy programs to treat specific problems, such as weight loss, anxiety and insomnia. Psychological assessment, including intellectual, personality and neuropsychological evaluation for children and adults, is offered through the center.

Fees range from \$5 to \$65 an hour, depending on the client's financial situation. For more information, call the center at 889-6555.

Calendar Deadline

The deadline to submit items for Dec. 15-Jan. 19 calendar of the Washington University Record is Dec. 8. Items must be typed and state time, date, place, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include speaker's name and identification and the title of the event; also include your name and telephone number. Send items to King McElroy, calendar editor, Box 1070, or by electronic mail to p72245KM at WUVMC.